

**AKAI**  
*professional*

**S1000**  
MIDI STEREO DIGITAL SAMPLER

More than Just Magic...



# Sonic Perfection and Intelligence

**The AKAI S1000 Digital Stereo Sampler features extraordinary 16 bit CD sound quality and extensive sound shaping capabilities. The S1000's ergonomically designed operating controls, powerful graphic display and intuitive operating system give you fast and easy control.**

## Your Music Demands the Absolute Best.

The S1000 is an incredibly powerful tool designed to give you the highest sound quality attainable using today's advanced technology. The S1000 uses custom designed VLSI circuits and 2 megabytes of RAM that can be expanded to 4, 6, or 8 megabytes with optional memory boards. Over 95 seconds of mono sampling at full bandwidth are available using the 44.1kHz sampling rate and 8 megabytes of RAM (over 3 minutes using the 22kHz sampling rate). With the S1000's stereo sampling capability, full 16 bit dynamic range and 24 bit internal processing, instrument can be reproduced with their authentic ambience and spacial cues. The S1000 is a perfectionist's tool for those who demand the absolute best.

## Simple, Straightforward Operation and Elegant Design

A powerful tool is virtually useless if it is hard

to operate. The S1000 has been designed foremost as a fast and efficient production workhorse that is a true pleasure to operate. Careful attention to performance details such as the ability to monitor input signals during recording and the intelligently designed operating controls make the S1000 a musician's dream machine. The AKAI S1000 has an ergonomically designed control panel with large rotary cursor and data dials, angled ten keypad and flexible function keys, dedicated level controls, and an aesthetically pleasing rich blue and silver graphic display. The large powerful graphic display, not even found on samplers costing much more, is the "window" through which the extensive capabilities of the S1000 are quickly accessed. The informative screen pages will rapidly guide you through even the most complex of operations fast and easily without having to constantly refer to the manual. The intuitive operation of the S1000 is one of its most powerful features.

## Extensive Digital Processing Capabilities for Unsurpassed Flexibility

A sampler should no longer be simply a record/playback device—it should give you the ability to extensively modify and alter sampled sounds to create a multitude of new sonic possibilities. The S1000 has been designed to provide you with unsurpassed editing, digital processing, and sound construction capabilities. The S1000 gives you complete synthesizer functions to create powerful synthesizer/sampler combinations

for rich and lively sounds. There are standard synth waveforms, LFOs, -18dB/octave digital sweepable filters, and two ADSR envelopes per voice for filter control, amplitude shaping, or pitch bending. You can easily zoom in and out to view any portion of a sample for precise editing and looping. Individual samples can be cut and joined together in numerous ways allowing you to perform **sample reconstruction synthesis**. And up to 8 different loop points may be programmed. Additional functions include **Autolooping**, **Crossfade Looping**, **Loop in Release** (cycles through the loop as the sound decays), **Loop Until Release** (cycles through the loop until the note begins its decay), **Reverse**, an effect send and return, etc., But read on, this is just the beginning...

## 16 Voices for Exciting Multi-timbral, Layered Sounds, & Effects

The voice architecture can be set up as simple or as complex as you wish. The S1000 is fully multi-timbral allowing independent control of different sounds over different MIDI channels with 8 individually assignable outputs. Powerful layering capabilities open up a world of new creative possibilities. The S1000 allows you to split the note range into keygroups to perform multisampling. You can join, overlap, layer and crossfade between multisamples. The S1000's unique **Priority allocation** maximizes the capabilities of the 16 voices by "stealing voices" from low priority voices. A **Note On Coher-**

# High Performance Control

# ent Design

ence function allows for precise polyphonic percussive attack transients and the Beat function allows you to create lush chorus and swirling sounds by creating a constant beat frequency between voices.

## A New Dimension in Sampling Expression with Velocity Zones

The sound shaping capabilities of the S1000 are truly extensive. More important though is the ability to allow expressive control over these sounds. Previous samplers (including the megabuck machines) had inherently limited expressive capabilities. The S1000 opens up a new dimension in real time expression with **Velocity Zones** which allow you to assign up to four different samples per multisample keygroup that are cross-faded or switched between depending upon the velocity. Thus you can have four different ranges of expression for each multisample. For example—legato, detache, spiccato, and strong down bow.

## Compatible with the Huge Library of AKAI S900 disks

The 2DD/2HD disk drive gives you a wide range of storage options on low or high density 3.5 inch disks. The ability to play S900 disks (sound and loop point) gives you instant access to one of the largest library of sounds (the S900 has been the de facto standard for the past several years). The S1000 also supports MIDI Sample Dumps so

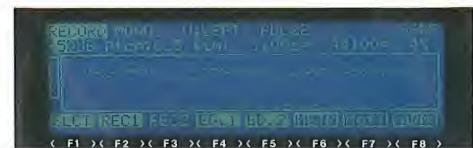
sounds can be easily interchanged with other samplers.

## Optional High Speed SCSI and ATARI™ Hard Disk and Digital Interface Boards

Optional interface boards will be available for the ATARI™ and SUPRA™ hard disks as well as for high speed SCSI hard disk drives. Up to 8 hard disk drives may be cascaded allowing you to easily set up a tremendously powerful sampling/storage configuration. An optional digital audio interface board will be available that allows you to make direct digital-digital transfers of data from a compact disk player into the S1000 for most effective use of the large number of sample CDs available.

## A World Class Power User's Dream

The S1000 is a true world class power user's tool that exceeds the sound and performance capabilities of samplers costing many times its price. And with samplers such as the S1000HD version (which includes an internal 40MB hard disk) and the S1000PB (playback only version) be prepared to go far beyond where any musician has gone before. For the first time the incredible cost/performance of the S1000, combined with the flexible capabilities of MIDI, makes it possible to reach to new limits using "parallel processing" with several S1000 samplers to realize symphonic orchestral arrangements or to create one monstrous instrument.



1. REC 2 – Sample recording.



2. PLAY RESPONSE – Play response parameters.



3. LOOP: 1 – Loop editing.



4. KEYS PAN – Key range and tuning.



5. ENV1-VOL – Amplitude envelope.



6. MIDI RECEIVE MONITOR – Monitor incoming MIDI data.

**MIDI STEREO DIGITAL SAMPLER**  
**S1000**



# EDIT MODE

SELECT PROGRAM			EDIT PROGRAM			5. TRAN		MIDI transmit test. Sets and transmits MIDI Note On data.							
1. SEL	Display and select programs currently stored in memory.		1 KGRP	KGRP	Select, copy/delete and edit keygroups for positional x-fade, coherence, etc.			6. EXCL							
2. RNUM	Re-number program numbers in memory.			SPAN	Set the key range and tuning for keygroups.			MIDI Exclusive. Send and Receive MIDI Sample Dumps.							
3. RESP	Set playing response parameters and output assignments (MIDI Ch., Output, Stereo Level, Pan, Oct. Shift etc.).			FILT	Set Filter Parameters.			DISK							
4. DEL	Delete programs from memory.			ENV1	Set ADSR values for the amplitude envelope.			1. LOAD							
5. DISK	Load programs from disk.			ENV2	Set ADSR values for the filter envelope.			2. SAVE							
EDIT SAMPLE				SMP1	Create velocity zones for each key group.			3. REM							
1. SLCT	Select sample to be re-recorded, monitored or edited.			SMP2	Set the tuning, loudness, panning and output routing for velocity zone/keygroup.			4. DEL							
2. REC1	Record Set-up Parameters. • MODE (Stereo/Mono) • START TRIGGER (Input level, MIDI Note, Foot Pedal) • BANDWIDTH (20kHz/10kHz) • SAMPLE LENGTH etc.			2. MIDI	Set MIDI Parameters.			5. HARD							
3. REC2	Sample recording.			3. OUT	Set output modulation parameters and stereo assignments.			6. FORM							
4. ED1	[TRIM] Set start/end points, trim off ends. [LOOP] Set loop points and length. [JOIN] Join and crossfade samples.			4. PMOD	LFO pitch modulation and pitch wheel assignments.			MASTER TUNE							
5. ED2	Set parameters: Original Pitch, Offset, Type of Playback (Loop in Release, Loop Until Release, No Loop, To End), Reverse.			MIDI				1. TUNE							
				1. CHAN	Set basic MIDI global parameters.			2. TEMP							
				2. FILT	Filter out unwanted MIDI data.			DRUM							
				3. PPM	Monitor 16 channels of velocity data on "peak meter" display.			REMOTE							
				4. RCVE	Monitor incoming MIDI data.			parameter settings.							

## <SPECIFICATIONS>

• Sampling method: 16 bit linear sampling • Sampling frequency: 44.1kHz/22.05kHz switchable • Sampling time: 23.76 sec. (Mono, 44.1kHz sampling) 47.52 sec. (Mono, 22.05kHz sampling), 11.88 sec. (Stereo, 44.1kHz sampling), 23.76 sec. (Stereo, 22.05kHz sampling) • Up to 4x the stated playback time with expansion boards (Up to 3 EXM005) • Frequency response: 20Hz~20kHz (44.1kHz sampling rate), 20Hz~10kHz (22.05kHz sampling rate) • Internal memory: 2M bytes (Up to 8M bytes with optional EXM005 expansion memory boards), Maximum number of samples: 200, Maximum number of programs: 100, Maximum number of combined samples + programs + key groups: 400 • Voices: 16 • Pitch shift method: Interpolation & Decimation digital operation (operating precision 24bit, custom LSI used) • Pitch shift range: ±2 octaves • Pitch shift resolution 1 cent • Filter section: Digital moving lowpass filter (-18dB/Oct), Envelope generators: 2 (digital operation) • Disk drive: 3.5 inch 2HD/2DD switchable • Display: 320 character display with large graphic function display • Front panel connectors: Rec In Cannon×2, (Lch, Rch), PHONE×2 (Lch, Rch), input level (switchable balance/gain) HI: -58dBm/MID: -38dBm/LOW: -18dBm • Rear panel connectors: STEREO OUT×2 (Lch, Rch)/standard output level -3dBV (center position pan), Output impedance 600 ohms, EFFECT SEND ×1/nominal output level -3dBV, Output impedance 600 ohms, ASSIGNABLE MIX OUT×8/standard output level -3dBV, output impedance 600 ohms, EFFECT RETURN ×2 (Lch, Rch)/input level -3dBV, Input impedance 10k ohms, FOOT SWITCH×1, MIDI IN×1, MIDI OUT×1, MIDI THRU×1 • Power consumption: 17W • Dimensions: 482.6 (W) x 132.6 (H) x 425 (D) mm (EIA 3U rackmount) • Weight: 9.5kg

## <DISK LIST> (Included accessories)

SL1001 GRAND PIANO 1 ————— NORMAL PF/FUNKY PF/CHORUS PF/SLOW PF/MALLETT PF/BRASS PF/SYNTH BASS

SL1002 STRINGS 1 ————— BIG STRINGS/BIG STRINGS 2/FILT STRINGS/PHASE STR/SOFT STRINGS/SYNTH STRINGS

SL1003 BRASS SEC. 1 ————— BRASS SEC.A/BRASS SEC.B/SYNTH BRASS 1/SYNTH BRASS 2/SLOW BRASS/SOFT BRASS/BRASS VL-PAN/BRASS A PAN

SL1004 DRUM KIT 1 ————— DANCE KIT 1/DANCE KIT 2/DANCE KIT 3/DANCE KIT 4

• SL1002, 1003, 1004 sounds produced at AIR STUDIOS LONDON.

## <OPTIONS>

• MEMORY EXPANSION BOARD EXM005

• ATARI™ HARD DISK INTERFACE BOARD IB-102

• SCSI INTERFACE BOARD IB-103

• DIGITAL AUDIO INTERFACE BOARD IB-104  
• BL1000 2HD BLANK DISK  
• BL350 2DD BLANK DISK  
• SOUND LIBRARY FOR S1000

SL1005* PERCUSSION 1	SL1010* SOLO VIOLIN 1	SL1015 ELECTRIC PIANO 1	SL1020* ELECTRIC BASS 1
SL1006* PERCUSSION 2	SL1011* VIOLA 1	SL1016 GRAND PIANO 2	SL1021* ELECTRIC BASS 2
SL1007* TRUMPET 1	SL1012* WALKING BASS	SL1017 GRAND PIANO 3	SL1022* STEREO STRINGS
SL1008* ALTO SAX 1	SL1013* FRETELESS BASS	SL1018* DRUM KIT 2	SL1023* VIOLINS
SL1009* HORNS	SL1014* NYLON GUITER	SL1019* BRUSHES KIT	SL1024* ODD STUFF

\* SOUNDS PRODUCED AT AIR STUDIOS LONDON

The S1000 Sound Library will be continuously expanded.

• SOUND LIBRARY FOR S1000 SL501 ~ SL580

## S1000HD

• S1000 with 40M byte internal hard disk for instant access to a large data bank.



## S1000PB

• S1000 Play Back only version with numerous editing capabilities.

## S950 MIDI DIGITAL SAMPLER

• Upgraded and expanded version of S900 with increased frequency response (7.5kHz~48kHz) and expandable memory (up to 2.25M byte with optional expansion board).



\* For improvement purposes, specifications and design are subject to change without notice.

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